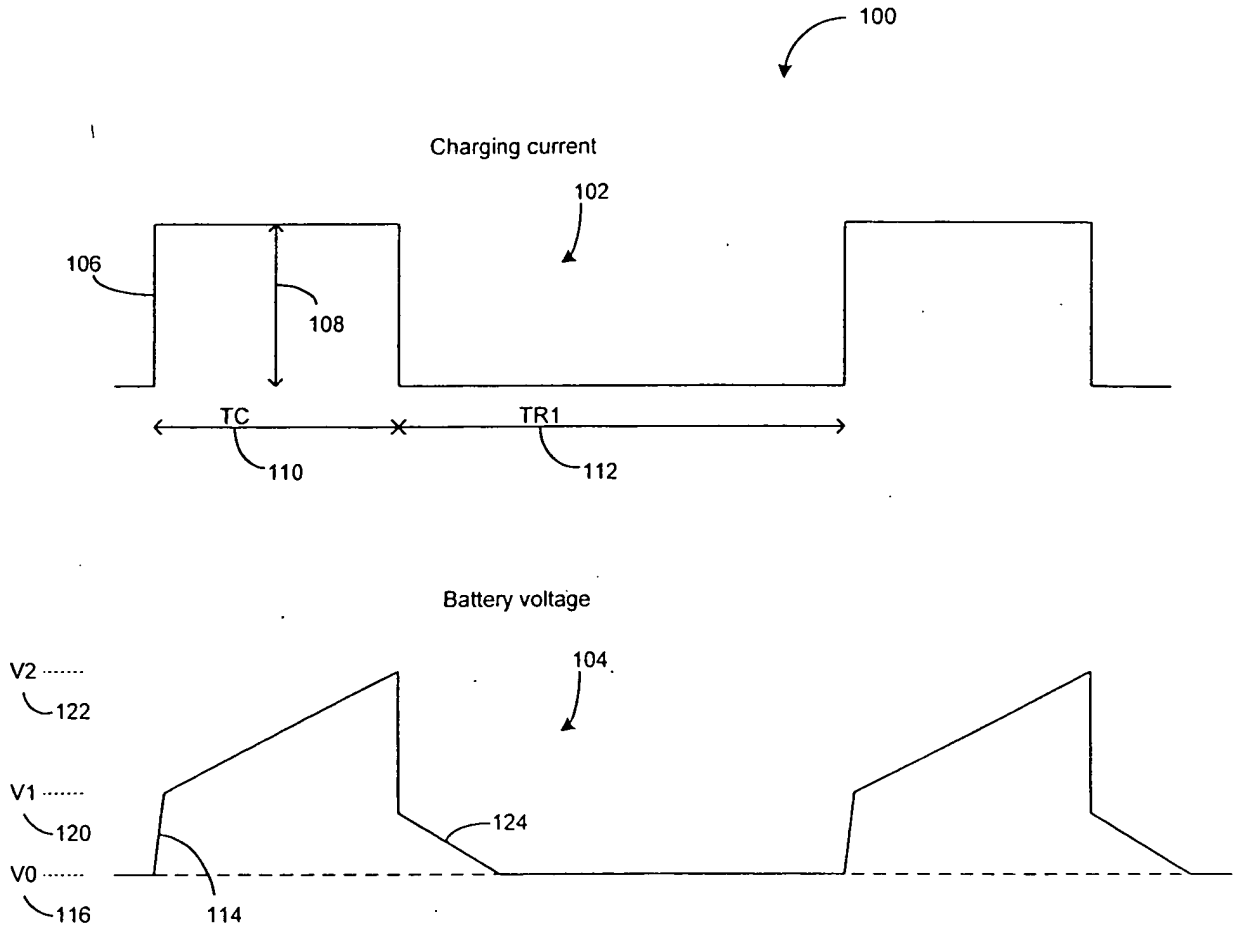
Exemplary charging profile
100
Charging current
102
106
108
TC
TR1
110
112
Battery voltage
104
V2
122
V1
120
V0
116
124
114

FIGURE 1

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Exemplary charging profile

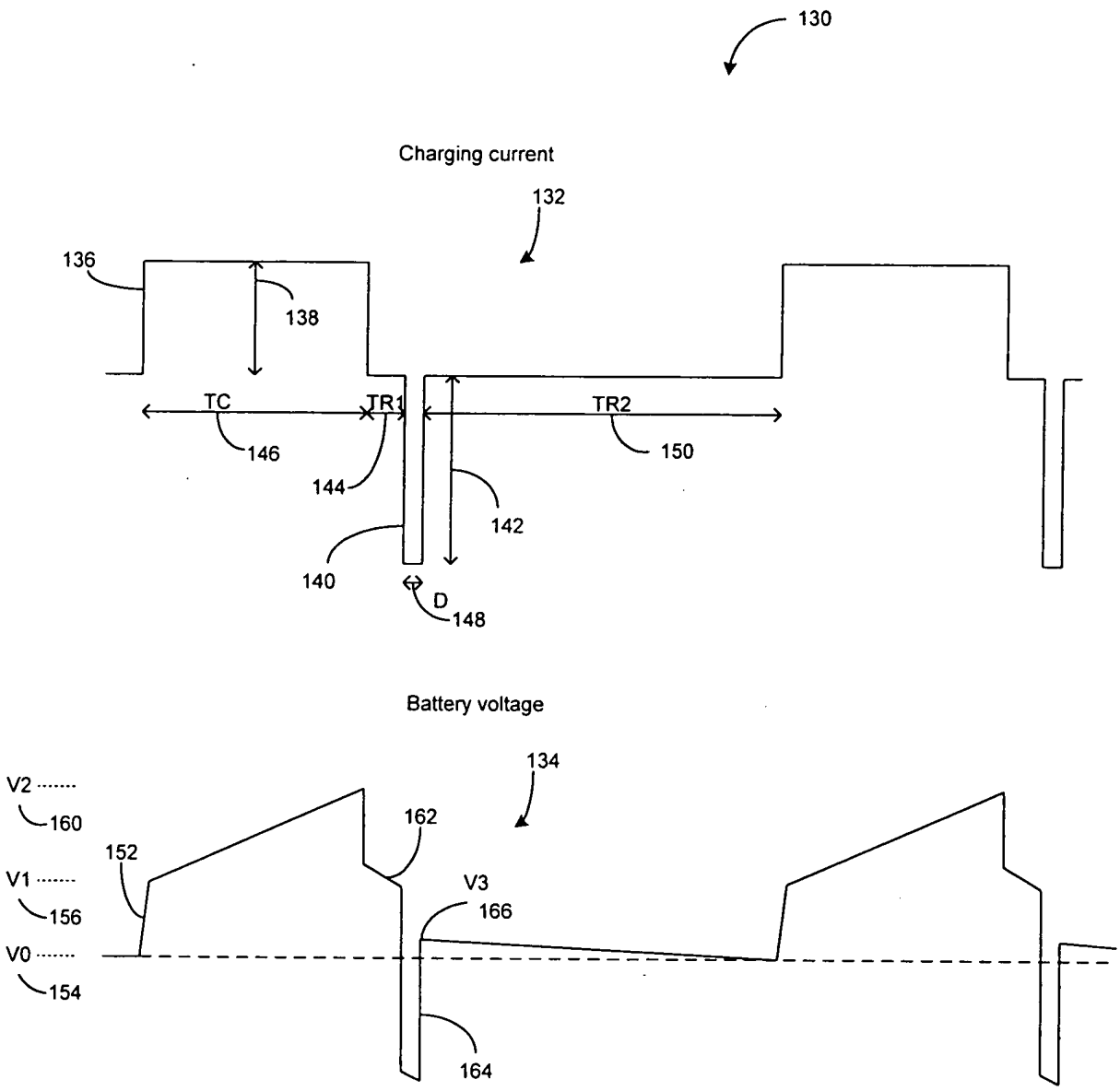

FIGURE 2

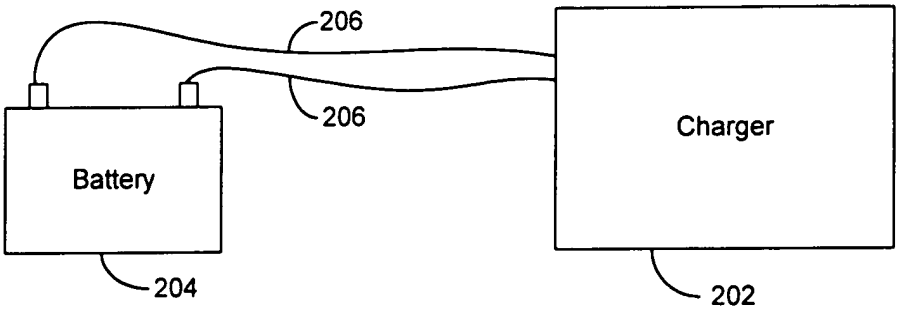

FIGURE 3A

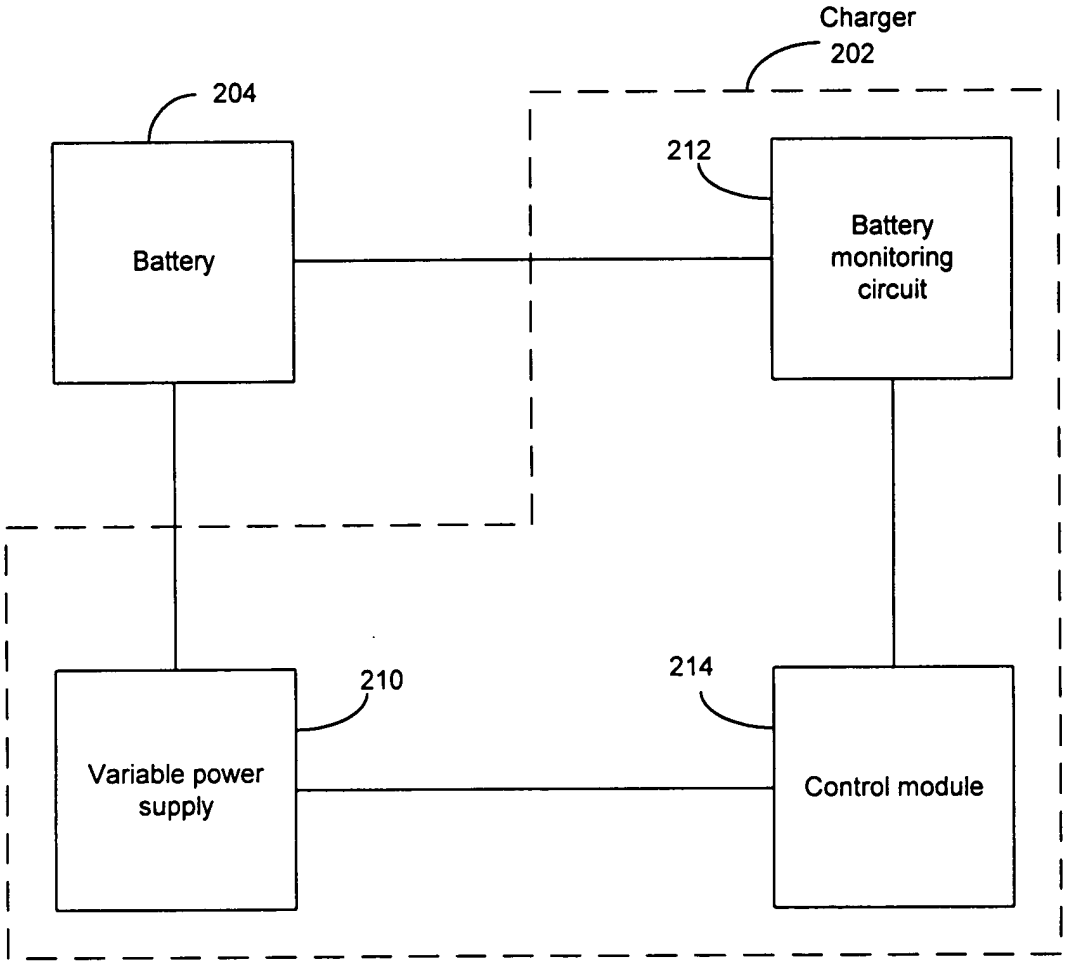

FIGURE 3B

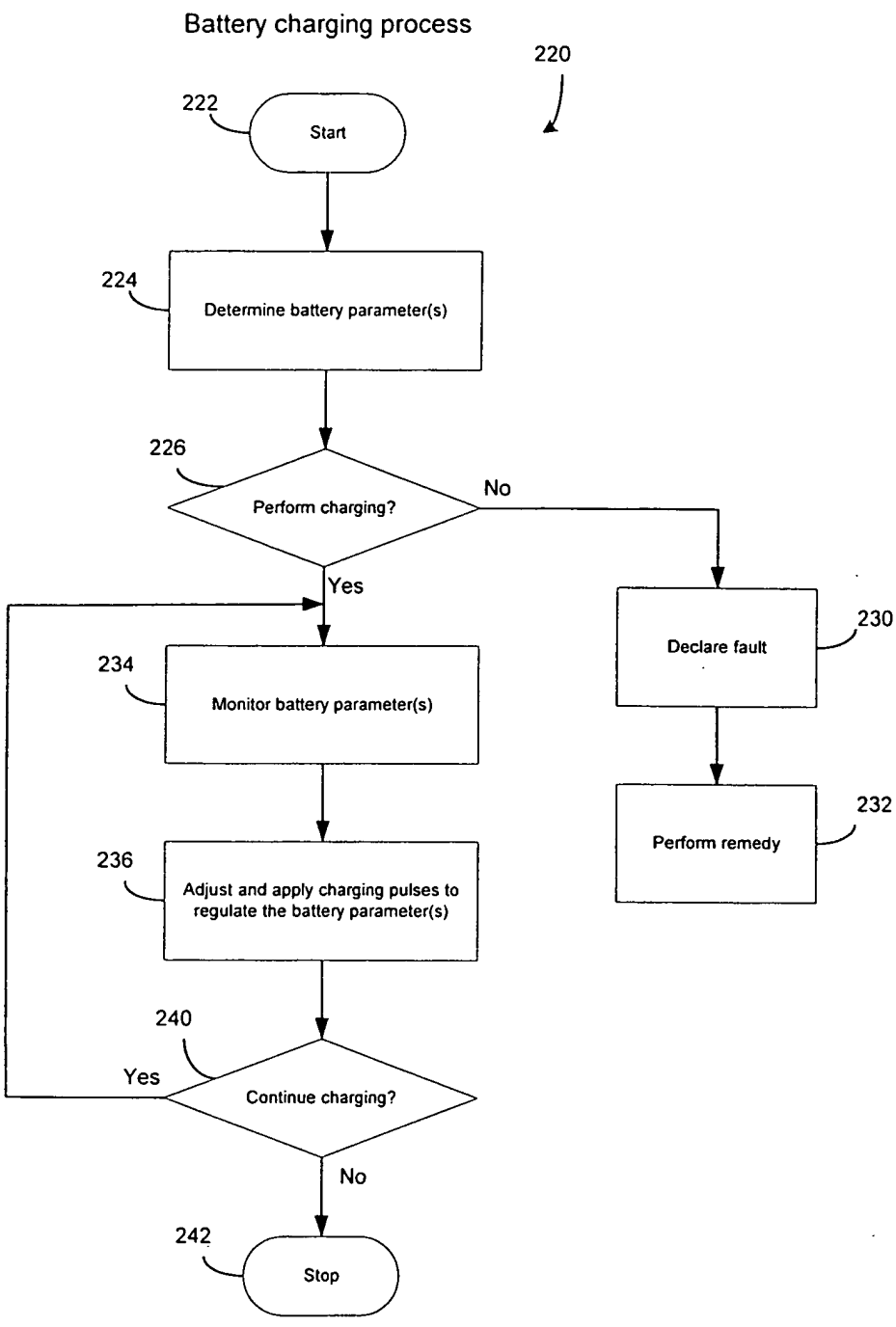
Battery charging process
220
222
Start
224
Determine battery parameter(s)
226
Perform charging?
No
Yes
230
Declare fault
232
Perform remedy
234
Monitor battery parameter(s)
236
Adjust and apply charging pulses to regulate the battery parameter(s)
240
Yes
Continue charging?
No
242
Stop

FIGURE 4

Exemplary process for adaptive regulated pulse charging

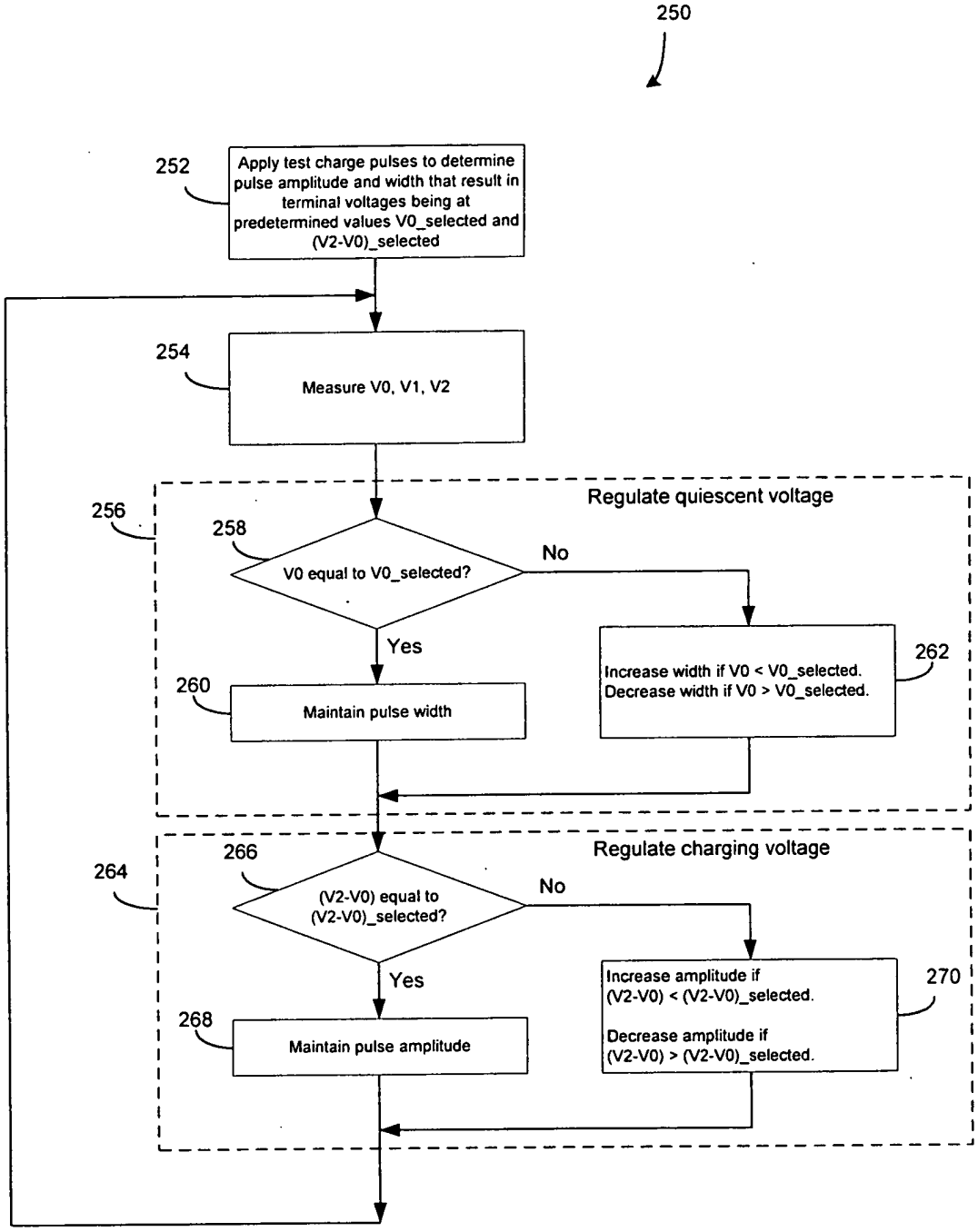

FIGURE 5

Exemplary process for adaptive regulated pulse charging that includes discharging pulses

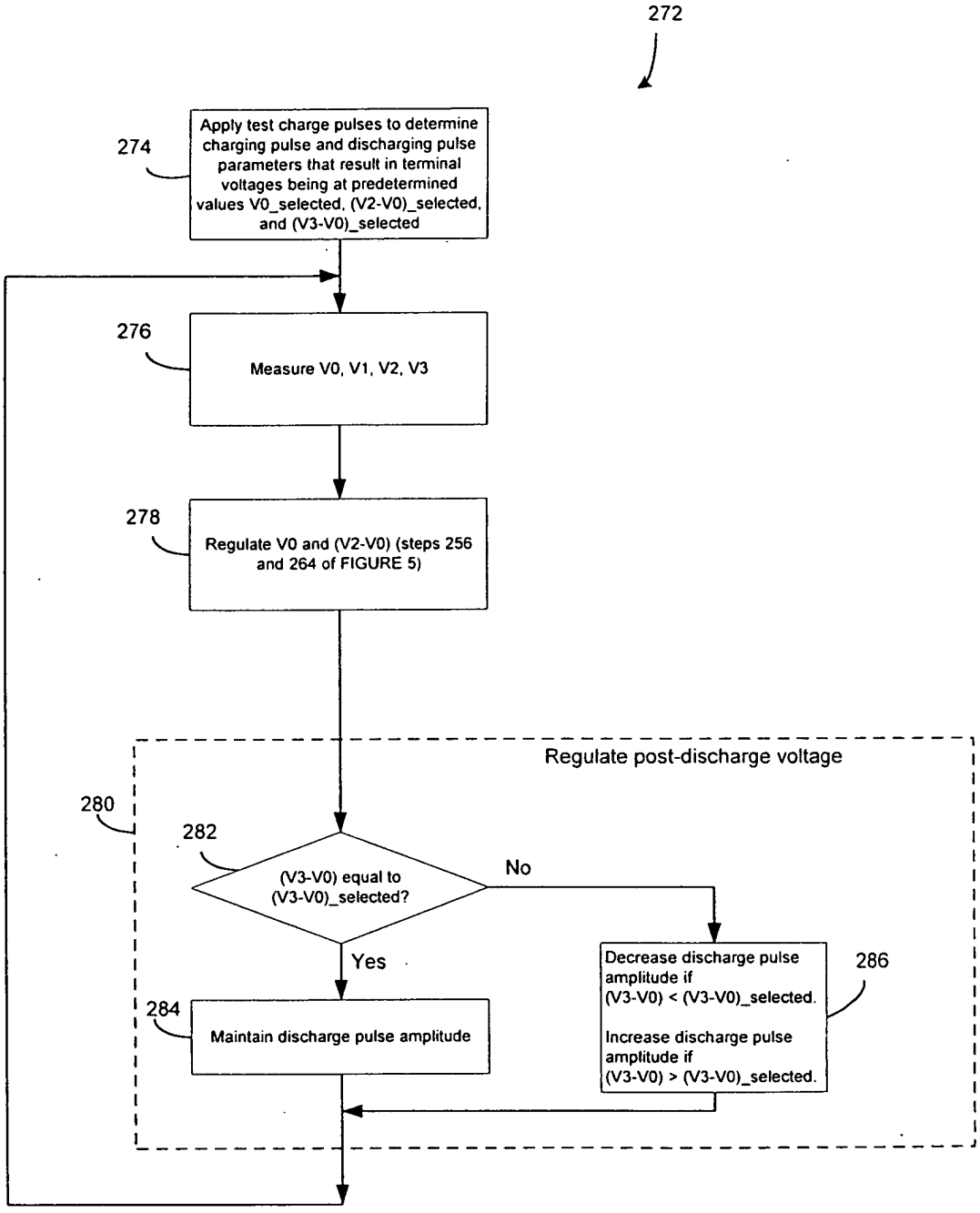

FIGURE 6

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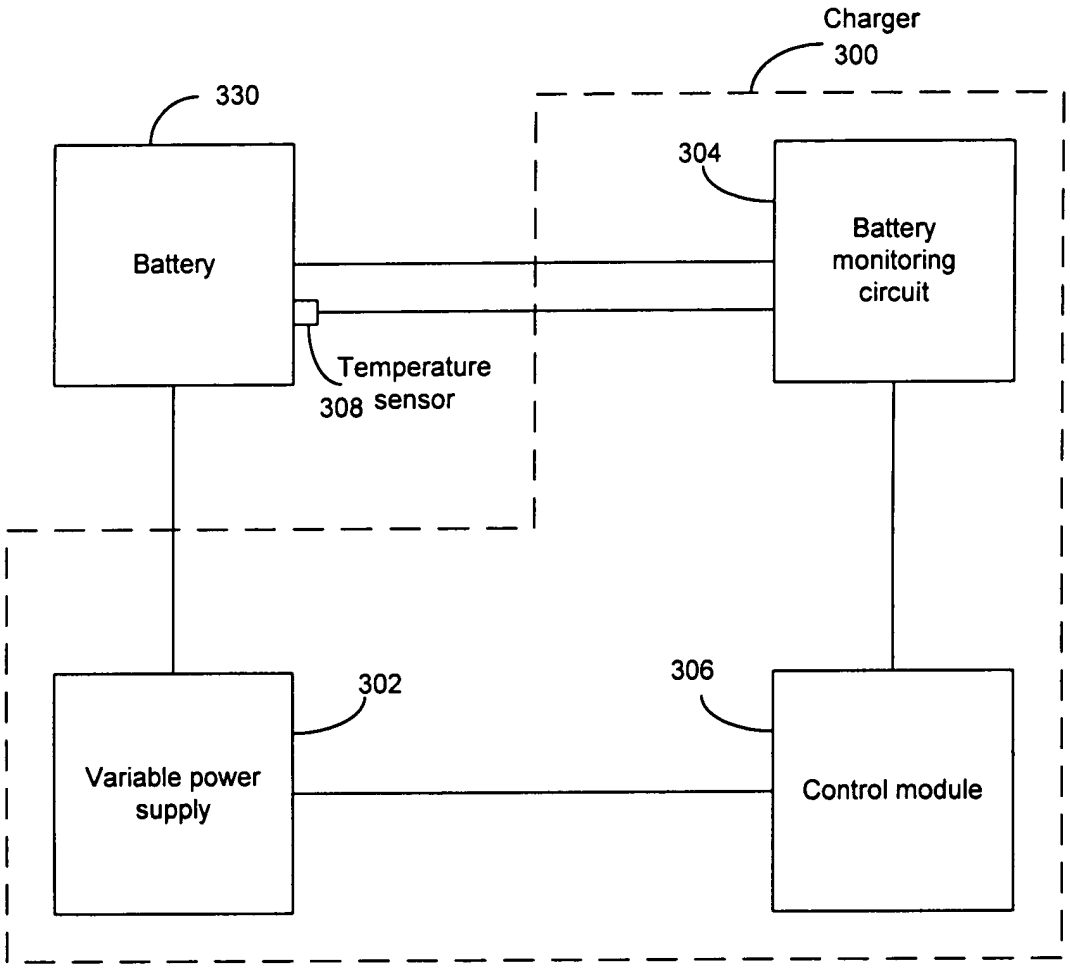

FIGURE 7

Exemplary process for regulating pulse charging based on battery temperature

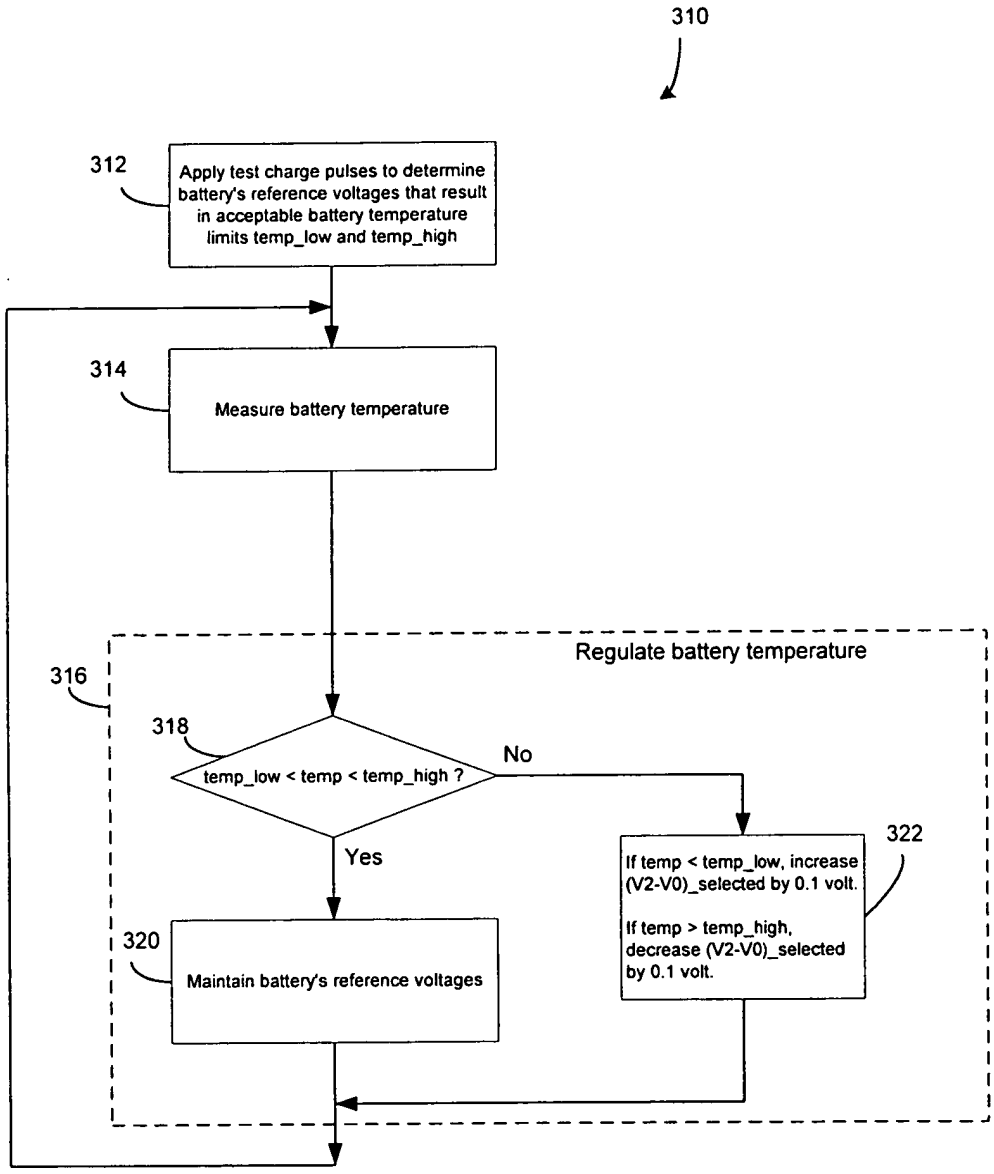

FIGURE 8